



PLEASE INCLUDE THE FOLLOWING CLEAN VERSION OF THE  
SPECIFICATION, PAGE 8 PURSUANT TO 37 CFR 1.121(B)(2)(ii)

a valve housing 68 of the regulator 30. The valve housing 68 is formed of metal having the constant volume discharge valve 52 machined therein. A threaded shank 51 for capturing a piston 71 and its essential components is threadably received in the valve housing 68. The discharge valve 52 includes a biased valve closure member defined by the piston 71 having a supple and sealing seat member 53 engaging an annular seat 54.

The discharge valve 52 further includes a ball 56 for engaging a hard metal seat 58 for acting as a pressure control means. The ball 56 is biased in a closed position by internal pressure of the canister 20 and a resilient spring 59. The hard metal seat 58 prevents a sealing seat from being achieved. As the supply pressure of the oxygen nitrogen mixture decreases, the ball 56 is lifted from the hard metal seat 58 by a metal pin 61 being resiliently biased through a valve arm 62 and a resilient coil spring 63. The valve arm 62 thereby functions as a pressure regulator for maintaining a substantially constant pressure within a chamber 64.

The valve arm 62 has a fixed diameter orifice passageway 65 communicating from the chamber 64 to an outer chamber 66 thereby providing open communication through a conduit 67 and a flexible tube 69 to the puncture stem 83 (not shown). The valve arm 62 is actuated by a lever arm 72 resting